PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

YOU ME PATENT AND LAW FIRM

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTH

(PCT Rule 43bis.1)



	Date of mailing (day/month/year)	28 JUNE 2005 (28.06.2005)	
Applicant's or agent's file reference OPP041948KR	FOR FURTHER	FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/KR2005/000615	International filing date (day/month/year) 04 MARCH 2005 (04.03.2005)	Priority date(day/month/year) 05 MARCH 2004 (05.03.2004)	
International Patent Classification (IPC IPC7 H04L 9/32	C) or both national classification and IPC		
Applicant			
Electronics and Telecommun	ications Research Institute et al		

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١.	This	opinion contain	s indications relating to the following items:
	\boxtimes	Box No. I	Basis of the opinion
		Box No. II	Priority
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Box No. IV	Lack of unity of invention
	\boxtimes	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
		Box No. VI	Certain documents cited
		Box No. VII	Certain defects in the international application
		Box No. VIII	Certain observations on the international application
2.		FHER ACTIO	N national preliminary examination is made, this opinion will be considered to be a written opinion of the

International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the 1PEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2005/000615

Bo	x No. 1 Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in wirtten format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/000615

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-45	YES
	Claims None	МО
Inventive step (IS)	Claims 1-45	YES
• , ,	Claims None	NO
Industrial applicability (IA	Claims 1-45	YES
	Claims None	NO

2. Citations and explanations:

Reference is made to the following documents:

D: IEEE Standard 802.16: A Technical Overview of the WirelessMAN Air Interface for Broadband Wireless Access

1. Independent claims 1, 2, 21, 22, 31, 39 and 42

D overviews the technical medium access control and physical layer features of IEEE Standard 802.16. But D does not disclose: a method for a base station to manage a traffic encryption key for encrypting traffic data for a multicast service or a broadcast service provided to a subscriber station in a wireless portable Internet system of claims 1 and 2; a method for a subscriber station to manage a traffic encryption key for decrypting traffic data for a multicast service or a broadcast service received from a base station in a wireless portable Internet system of claims 21 and 22; a method for configuring a protocol for managing a traffic encryption key for encryption or decryption of traffic data for a multicast service or a broadcast service transmitted and received between a subscriber station and a base station in a wireless portable internet system of claim 31; an operation method of a traffic encryption key state machine provided to a subscriber station and used for the subscriber station to manage a traffic encryption key for decrypting traffic data received from a base station for a multicast service or a broadcast service of claim 39; and an operation method of a traffic encryption key state machine existing in a subscriber station and used for the subscriber station to manage a traffic encryption key for decrypting traffic data received from a base station for a multicast service or a broadcast service or a broadca

So it is considered that independent claims 1, 21, 31, 39 and 41 relate to new and inventive subject-matter(Articles 33(2) and (3) PCT), since the prior art does not disclose or suggest the specifically claimed inventions.

The inventions of claims 1, 21, 31, 39 and 41 are industrially applicable.

2. Dependent claims 3-20, 23-30, 32-38, 40, 41 and 43-45

Dependent claims 3-20, 23-30, 32-38, 40, 41 and 43-45 satisfy the requirements for novelty and inventive step(Article 33(2) and (3) PCT).

The inventions of claims 3-20, 23-30, 32-38, 40, 41 and 43-45 are industrially applicable.